

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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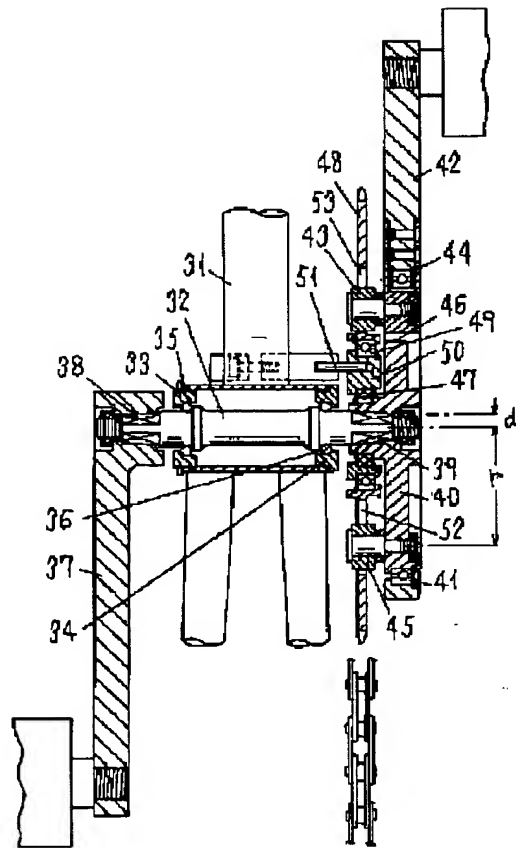
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APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : SUZUKI MASAKI;

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TITLE : DRIVING DEVICE FOR BICYCLE



**ABSTRACT :** PURPOSE: To remove the top and bottom dead centers of a crank movement and make fitting to an existing bicycle easy by forming a non-uniform velocity motion mechanism of roller constitution among a crank wheel and a second crank and a sprocket wheel supported at the boss portion of a crank wheel by means of bearings made eccentric to a hanger shaft axis center.

CONSTITUTION: A first crank 37 is fitted to one end of a hanger bearing 32, and a crank wheel 40 and a second crank 42 are fitted to the other end of the bearing 32. In addition, an eccentric collar 50 that supports a sprocket wheel 48 by means of a roller bearing 49 is fitted to the boss portion of the crank wheel 40 through a roller bearing 47. Among a crank wheel 50 and the second crank 42 and the sprocket wheel 48, a non-uniform velocity motion mechanism consisting of rollers 43, 45 and long grooves 52, 53 is arranged and connected.

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